

# Integral representation of a solution to three-dimensional elliptic equation with strong degeneration

Khabibullina G., Makletsov S., Mavlyaviev R.

*Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia*

---

## Abstract

© 2015, Allerton Press, Inc. In a three-dimensional Euclidean space we consider an elliptic equation with strong degeneration. We derive the first and the second Green formula. We also construct a fundamental solution to the equation and obtain an integral representation of its solution.

<http://dx.doi.org/10.3103/S1066369X15110079>

---

## Keywords

degenerate elliptic equations, fundamental solution, integral representation of the solution